Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	475256	(restrict$3 limit$3) with (access$3 operat$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/05/12 17:36
L2	502307	(authoriz$3 permi$8 allow$3) with (modif$8 alter$3 chang$3 program$4 rewrit$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/05/12 17:37
L3	7975	1 same 2	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/05/12 17:37
L4	4566998	(database memory stor$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/05/12 17:38
L5	2379	3 same 4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/05/12 17:40
L6	721	1 with 2 with 4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/05/12 17:41
L7	48317	"711"/$.ccls. "713"/$.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/05/12 17:41
L8	146	6 and 7	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/05/12 17:41

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L18	4337	(stor$3 register$3 sav$3 record$3) with (permi$8 allow$3 password identif$8) with ((restrict$3 limit$3) near5 (access operat$3 us$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/05/12 18:20
L19	16766	prevent$3 with unauthoriz$3 with (us$3 access$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/05/12 18:21
L20	435	18 and 19	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/05/12 18:22
L21	36	18 same 19	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/05/12 18:22

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1   Separating access control policy, enforcement, and functionality in extensible systems   ◼
Robert Grimm, Brian N. Bershad
February 2001 **ACM Transactions on Computer Systems (TOCS)**, Volume 19 Issue 1

Full text available: 📄 pdf(164.03 KB)   Additional Information: full citation, abstract, references, citings, index terms, review

Extensible systems, such as Java or the SPIN extensible operating system, allow for units of code, or extensions, to be added to a running system in almost arbitrary fashion. Extensions closely interact through low-latency but type-safe interfaces to form a tightly integrated system. As extensions can come from arbitrary sources, not all of whom can be trusted to conform to an organization's security policy, such structuring raises the question of how security constraints are enforced in an ...

Keywords: Java, SPIN, access check, auditing, extensible systems, policy-neutral enforcement, protection domain, protection domain transfer, security policy

2   System support for pervasive applications   ◼
Robert Grimm, Janet Davis, Eric Lemar, Adam Macbeth, Steven Swanson, Thomas Anderson, Brian Bershad, Gaetano Borriello, Steven Gribble, David Wetherall
November 2004 **ACM Transactions on Computer Systems (TOCS)**, Volume 22 Issue 4

Full text available: 📄 pdf(1.82 MB)   Additional Information: full citation, abstract, references, index terms

Pervasive computing provides an attractive vision for the future of computing. Computational power will be available everywhere. Mobile and stationary devices will dynamically connect and coordinate to seamlessly help people in accomplishing their tasks. For this vision to become a reality, developers must build applications that constantly adapt to a highly dynamic computing environment. To make the developers' task feasible, we present a system architecture for pervasive computing, called & ...

Keywords: Asynchronous events, checkpointing, discovery, logic/operation pattern, migration, one.world, pervasive computing, structured I/O, tuples, ubiquitous computing

3   Distributed file systems: concepts and examples   ◼
Eliezer Levy, Abraham Silberschatz
December 1990 **ACM Computing Surveys (CSUR)**, Volume 22 Issue 4

Full text available: 📄 pdf(5.33 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

The purpose of a distributed file system (DFS) is to allow users of physically distributed computers to share data and storage resources by using a common file system. A typical configuration for a DFS is a collection of workstations and mainframes connected by a local area network (LAN). A DFS is implemented as part of the operating system of each of the connected computers. This paper establishes a viewpoint that emphasizes the dispersed structure and decentralization of both data and con ...

4 Applications: YouServ: a web-hosting and content sharing tool for the masses ■
Roberto J. Bayardo Jr., Rakesh Agrawal, Daniel Gruhl, Amit Somani
May 2002 **Proceedings of the eleventh international conference on World Wide Web**

Full text available: 📄 pdf(238.48 KB)   Additional Information: full citation, abstract, references, citings, index terms

YouServ is a system that allows its users to pool existing desktop computing resources for *high availability* web hosting and file sharing. By exploiting standard web and internet protocols (e.g. HTTP and DNS), YouServ does not require those who access YouServ-published content to install special purpose software. Because it requires minimal server-side resources and administration, YouServ can be provided at a very low cost. We describe the design, implementation, and a successful intrane ...

Keywords: decentralized systems, p2p, peer-to-peer networks, web hosting

5 Development of an object-oriented DBMS ■
David Maier, Jacob Stein, Allen Otis, Alan Purdy
June 1986 **ACM SIGPLAN Notices , Conference proceedings on Object-oriented programming systems, languages and applications**, Volume 21 Issue 11

Full text available: 📄 pdf(1.12 MB)   Additional Information: full citation, abstract, references, citings, index terms

We describe the results of developing the GemStone object-oriented database server, which supports a model of objects similar to that of Smalltalk-80. We begin with a summary of the goals and requirements for the system: an extensible data model that captures behavioral semantics, no artificial bounds on the number or size of database objects, database amenities (concurrency, transactions, recovery, associative access, authorization) and an interactive development environment. Object-orient ...

6 A comparison of two network-based file servers ■
James G. Mitchell, Jeremy Dion
April 1982 **Communications of the ACM**, Volume 25 Issue 4

Full text available: 📄 pdf(1.50 MB)   Additional Information: full citation, abstract, references, citings, index terms

This paper compares two working network-based file servers, the Xerox Distributed File System (XDFS) implemented at the Xerox Palo Alto Research Center, and the Cambridge File Server (CFS) implemented at the Cambridge University Computer Laboratory. Both servers support concurrent random access to files using atomic transactions, both are connected to local area networks, and both have been in service long enough to enable us to draw lessons from them for future file servers. We ...

7 Minos: Control Data Attack Prevention Orthogonal to Memory Model ■
Jedidiah R. Crandall, Frederic T. Chong
December 2004 **Proceedings of the 37th International Symposium on Microarchitecture**

Full text available: 📄 pdf(255.53 KB)   Additional Information: full citation, abstract

We introduce Minos, a microarchitecture that implements Biba's low-water-mark integrity policy on individual words of data. Minos stops attacks that corrupt control data to hijack program control flow but is orthogonal to the memory model. Control data is any data which is loaded into the program counter on control flow transfer, or any data used to calculate such data. The key is that Minos tracks the integrity of all data, but protects control flow by checking this integrity when a program use ...

8 A taxonomy of computer program security flaws
Carl E. Landwehr, Alan R. Bull, John P. McDermott, William S. Choi
September 1994 **ACM Computing Surveys (CSUR)**, Volume 26 Issue 3

Full text available: pdf(3.81 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

An organized record of actual flaws can be useful to computer system designers, programmers, analysts, administrators, and users. This survey provides a taxonomy for computer program security flaws, with an Appendix that documents 50 actual security flaws. These flaws have all been described previously in the open literature, but in widely separated places. For those new to the field of computer security, they provide a good introduction to the characteristics of security flaws and how they ...

Keywords: error/defect classification, security flaw, taxonomy

9 Integrating an object server with other worlds
Alan Purdy, Bruce Schuchardt, David Maier
January 1987 **ACM Transactions on Information Systems (TOIS)**, Volume 5 Issue 1

Full text available: pdf(1.61 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

Object-oriented database servers are beginning to appear on the commercial market in response to a demand by application developers for increased modeling power in database systems. Before these new servers can enhance the productivity of application designers, systems designers must provide simple interfaces to them from both procedural and object-oriented languages. This paper first describes a successful interface between an object server and two procedural languages (C and Pascal). Beca ...

10 A cryptographic file system for UNIX
Matt Blaze
December 1993 **Proceedings of the 1st ACM conference on Computer and communications security**

Full text available: pdf(955.62 KB)   Additional Information: full citation, abstract, references, citings, index terms

Although cryptographic techniques are playing an increasingly important role in modern computing system security, user-level tools for encrypting file data are cumbersome and suffer from a number of inherent vulnerabilities. The Cryptographic File System (CFS) pushes encryption services into the file system itself. CFS supports secure storage at the system level through a standard Unix file system interface to encrypted files. Users associate a cryptographic key with the directories ...

11 WFS a simple shared file system for a distributed environment
Daniel Swinehart, Gene McDaniel, David Boggs
December 1979 **Proceedings of the seventh ACM symposium on Operating systems principles**

Full text available: pdf(751.34 KB)   Additional Information: full citation, abstract, references, citings, index terms

WFS is a shared file server available to a large network community. WFS responds to a carefully limited repertoire of commands that client programs transmit over the network. The system does not utilize connections, but instead behaves like a remote disk and reacts to page-level requests. The design emphasizes reliance upon client programs to implement the traditional facilities (stream IO, a directory system, etc.) of a file system. The use of atomic commands and connectionless protocols n ...

12 An embedded domain-specific language for type-safe server-side web scripting

Peter Thiemann
February 2005 **ACM Transactions on Internet Technology (TOIT)**, Volume 5 Issue 1

Full text available: pdf(336.60 KB)   Additional Information: full citation, abstract, references, index terms

WASH/CGI is an embedded domain-specific language for server-side Web scripting. Due to its reliance on the strongly typed, purely functional programming language Haskell as a host language, it is highly flexible and---at the same time---it provides extensive guarantees due to its pervasive use of type information.WASH/CGI can be structured into a number of sublanguages addressing different aspects of the application. The *document sublanguage* provides tools for the generation of parameteri ...

Keywords: Interactive Web services, Web programming

13 File and storage systems: Decentralized user authentication in a global file system

Michael Kaminsky, George Savvides, David Mazieres, M. Frans Kaashoek
October 2003 **Proceedings of the nineteenth ACM symposium on Operating systems principles**
Full text available: pdf(144.43 KB)   Additional Information: full citation, abstract, references, index terms

The challenge for user authentication in a global file system is allowing people to grant access to specific users and groups in remote administrative domains, without assuming any kind of pre-existing administrative relationship. The traditional approach to user authentication across administrative domains is for users to prove their identities through a chain of certificates. Certificates allow for general forms of delegation, but they often require more infrastructure than is necessary to sup ...

Keywords: ACL, SFS, authentication, authorization, credentials, file system, groups, users

14 MarketNet: market-based protection of information systems

Y. Yemini, A. Dailianas, D. Florissi, G. Huberman
October 1998 **Proceedings of the first international conference on Information and computation economies**
Full text available: pdf(1.14 MB)   Additional Information: full citation, references, citings, index terms

15 Security: Zero-interaction authentication

Mark D. Corner, Brian D. Noble
September 2002 **Proceedings of the 8th annual international conference on Mobile computing and networking**
Full text available: pdf(273.30 KB)   Additional Information: full citation, abstract, references, citings, index terms

Laptops are vulnerable to theft, greatly increasing the likelihood of exposing sensitive files. Unfortunately, storing data in a cryptographic file system does not fully address this problem. Such systems ask the user to imbue them with long-term authority for decryption, but that authority can be used by anyone who physically possesses the machine. Forcing

the user to frequently reestablish his identity is intrusive, encouraging him to disable encryption.Our solution to this problem is *Zero- ...*

Keywords: *cryptographic file systems, mobile computing, stackable file systems, transient authentication*

16 Security on the move: indirect authentication using Kerberos
Armando Fox, Steven D. Gribble
November 1996 **Proceedings of the 2nd annual international conference on Mobile computing and networking**
Full text available: pdf(1.34 MB)   Additional Information: full citation, references, citings, index terms

17 Privacy: Privacy and security in library RFID: issues, practices, and architectures
David Molnar, David Wagner
October 2004 **Proceedings of the 11th ACM conference on Computer and communications security**
Full text available: pdf(241.45 KB)   Additional Information: full citation, abstract, references, index terms

We expose privacy issues related to Radio Frequency Identification (RFID) in libraries, describe current deployments, and suggest novel architectures for library RFID. Libraries are a fast growing application of RFID; the technology promises to relieve repetitive strain injury, speed patron self-checkout, and make possible comprehensive inventory. Unlike supply-chain RFID, library RFID requires item-level tagging, thereby raising immediate patron privacy issues. Current conventional wisdom su ...

Keywords: RFID, privacy, private authentication, security

18 Sharing and protection in a single-address-space operating system
Jeffrey S. Chase, Henry M. Levy, Michael J. Feeley, Edward D. Lazowska
November 1994 **ACM Transactions on Computer Systems (TOCS)**, Volume 12 Issue 4
Full text available: pdf(2.87 MB)   Additional Information: full citation, abstract, references, citings, index terms

This article explores memory sharing and protection support in Opal, a single-address-space operating system designed for wide-address (64-bit) architectures. Opal threads execute within protection domains in a single shared virtual address space. Sharing is simplified, because addresses are context independent. There is no loss of protection, because addressability and access are independent; the right to access a segment is determined by the protection domain in which a thread executes. T ...

Keywords: 64-bit architectures, capability-based systems, microkernel operating systems, object-oriented database systems, persistent storage, protection, single-address-space operating systems, wide-address architectures

19 Distributed operating systems
Andrew S. Tanenbaum, Robbert Van Renesse
December 1985 **ACM Computing Surveys (CSUR)**, Volume 17 Issue 4
Full text available: pdf(5.49 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

Distributed operating systems have many aspects in common with centralized ones, but they also differ in certain ways. This paper is intended as an introduction to distributed

operating systems, and especially to current university research about them. After a discussion of what constitutes a distributed operating system and how it is distinguished from a computer network, various key design issues are discussed. Then several examples of current research projects are examined in some detail ...

20 Improving the granularity of access control for Windows 2000

Michael M. Swift, Anne Hopkins, Peter Brundrett, Cliff Van Dyke, Praerit Garg, Shannon Chan, Mario Goertzel, Gregory Jensenworth

November 2002 **ACM Transactions on Information and System Security (TISSEC)**, Volume 5 Issue 4

Full text available: ⬛ pdf(447.78 KB)   Additional Information: full citation, abstract, references, citings, index terms, review

This article presents the mechanisms in Windows 2000 that enable fine-grained and centrally managed access control for both operating system components and applications. These features were added during the transition from Windows NT 4.0 to support the Active Directory, a new feature in Windows 2000, and to protect computers connected to the Internet. While the access control mechanisms in Windows NT are suitable for file systems and applications with simple requirements, they fall short of the ...

Keywords: Access control lists, Microsoft Windows 2000, Windows NT, active directory

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Relevance scale ☐⊡▬◼◼

21 Securing a global village and its resources: baseline security for interconnected signaling system #7 telecommunications networks   ▬
Hank M. Kluepfel
December 1993 **Proceedings of the 1st ACM conference on Computer and communications security**
Full text available: 📄 pdf(1.19 MB)   Additional Information: full citation, abstract, references, index terms

The resulting national focus on Network Integrity issues, spawned the development of an industry commitment to affect and realize a minimum security baseline for interconnected SS7 networks. In addition the affected carriers in those outage have accelerated their pursuit of secure solutions to today's intelligent networking.[2]This paper will focus on the development of the baseline and the current effort to take the baseline into national, e.g., National Ins ...

22 Level II technical support in a distributed computing environment   ▬
Tim Leehane
September 1996 **Proceedings of the 24th annual ACM SIGUCCS conference on User services**
Full text available: 📄 pdf(5.73 MB)   Additional Information: full citation, references, index terms

23 ObjectGlobe: Ubiquitous query processing on the Internet   ▬
R. Braumandl, M. Keidl, A. Kemper, D. Kossmann, A. Kreutz, S. Seltzsam, K. Stocker
August 2001 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 10 Issue 1
Full text available: 📄 pdf(251.44 KB)   Additional Information: full citation, abstract, citings, index terms

We present the design of ObjectGlobe, a distributed and open query processor for Internet data sources. Today, data is published on the Internet via Web servers which have, if at all, very localized query processing capabilities. The goal of the ObjectGlobe project is to establish an open marketplace in which *data* and *query processing capabilities* can be distributed and used by any kind of Internet application. Furthermore, ObjectGlobe integrates *cycle providers* (i.e., machi ...

Keywords: Cycle-, function- and data provider, Distributed query processing, Open systems, Privacy, Quality of service, Query optimization, Security

24 Security as a new dimension in embedded system design: Security as a new dimension in embedded system design

Srivaths Ravi, Paul Kocher, Ruby Lee, Gary McGraw, Anand Raghunathan

June 2004 **Proceedings of the 41st annual conference on Design automation - Volume 00**

Full text available: pdf(209.10 KB)   Additional Information: full citation, abstract, references, citings, index terms

The growing number of instances of breaches in information security in the last few years has created a compelling case for efforts towards secure electronic systems. Embedded systems, which will be ubiquitously used to capture, store, manipulate, and access data of a sensitive nature, pose several unique and interesting security challenges. Security has been the subject of intensive research in the areas of cryptography, computing, and networking. However, despite these efforts, *security is ...*

Keywords: PDAs, architectures, battery life, cryptography, design, design methodologies, digital rights management, embedded systems, performance, security, security processing, security protocols, sensors, software attacks, tamper resistance, trusted computing, viruses

25 Manageability, availability, and performance in porcupine: a highly scalable, cluster-based mail service

Yasushi Saito, Brian N. Bershad, Henry M. Levy

August 2000 **ACM Transactions on Computer Systems (TOCS)**, Volume 18 Issue 3

Full text available: pdf(2.52 MB)   Additional Information: full citation, abstract, references, index terms

This paper describes the motivation, design and performance of Porcupine, a scalable mail server. The goal of Porcupine is to provide a highly available and scalable electronic mail service using a large cluster of commodity PCs. We designed Porcupine to be easy to manage by emphasizing dynamic load balancing, automatic configuration, and graceful degradation in the presence of failures. Key to the system's manageability, availability, and performance is that sessions, data, and underlying ...

Keywords: cluster, distributed systems, email, group membership protocol, load balancing, replication

26 File servers for network-based distributed systems

Liba Svobodova

December 1984 **ACM Computing Surveys (CSUR)**, Volume 16 Issue 4

Full text available: pdf(4.23 MB)   Additional Information: full citation, references, citings, index terms, review

27 Encryption and Secure Computer Networks

Gerald J. Popek, Charles S. Kline

December 1979 **ACM Computing Surveys (CSUR)**, Volume 11 Issue 4

Full text available: pdf(2.50 MB)   Additional Information: full citation, references, citings, index terms

28
Decentralized storage systems: Farsite: federated, available, and reliable storage for an incompletely trusted environment

Atul Adya, William J. Bolosky, Miguel Castro, Gerald Cermak, Ronnie Chaiken, John R. Douceur, Jon Howell, Jacob R. Lorch, Marvin Theimer, Roger P. Wattenhofer
December 2002 **ACM SIGOPS Operating Systems Review**, Volume 36 Issue SI
Full text available: pdf(1.87 MB)   Additional Information: full citation, abstract, references

Farsite is a secure, scalable file system that logically functions as a centralized file server but is physically distributed among a set of untrusted computers. Farsite provides file availability and reliability through randomized replicated storage; it ensures the secrecy of file contents with cryptographic techniques; it maintains the integrity of file and directory data with a Byzantine-fault-tolerant protocol; it is designed to be scalable by using a distributed hint mechanism and delegatio ...

29 Extensible security architectures for Java
Dan S. Wallach, Dirk Balfanz, Drew Dean, Edward W. Felten
October 1997 **ACM SIGOPS Operating Systems Review , Proceedings of the sixteenth ACM symposium on Operating systems principles**, Volume 31 Issue 5
Full text available: pdf(2.15 MB)   Additional Information: full citation, references, citings, index terms

30 LiSP: A lightweight security protocol for wireless sensor networks
Taejoon Park, Kang G. Shin
August 2004 **ACM Transactions on Embedded Computing Systems (TECS)**, Volume 3 Issue 3
Full text available: pdf(487.54 KB)   Additional Information: full citation, abstract, references, index terms

Small low-cost sensor devices with limited resources are being used widely to build a self-organizing wireless network for various applications, such as situation monitoring and asset surveillance. Making such a sensor network secure is crucial to their intended applications, yet challenging due to the severe resource constraints in each sensor device. We present a *lightweight security protocol* (LiSP) that makes a tradeoff between security and resource consumption via efficient rekeying. ...

Keywords: Authentication, key management, lightweight security, sensor networks

31 The proactive security toolkit and applications
Boaz Barak, Amir Herzberg, Dalit Naor, Eldad Shai
November 1999 **Proceedings of the 6th ACM conference on Computer and communications security**
Full text available: pdf(823.74 KB)   Additional Information: full citation, abstract, references, citings, index terms

Existing security mechanisms focus on prevention of penetrations, detection of a penetration and (manual) recovery tools Indeed attackers focus their penetration efforts on breaking into critical modules, and on avoiding detection of the attack. As a result, security tools and procedures may cause the attackers to lose control over a specific module (computer, account), since the attacker would rather lose control than risk detection of the attack. While controlling the module, attacker may ...

32 Formal Models for Computer Security
Carl E. Landwehr
September 1981 **ACM Computing Surveys (CSUR)**, Volume 13 Issue 3
Full text available: pdf(2.98 MB)   Additional Information: full citation, references, citings, index terms

33

Software security and privacy risks in mobile e-commerce

Anup K. Ghosh, Tara M. Swaminatha
February 2001 **Communications of the ACM**, Volume 44 Issue 2

Full text available: pdf(90.58 KB) html(38.81 KB)   Additional Information: full citation, references, citings, index terms

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34 Stateful distributed interposition

John Reumann, Kang G. Shin
February 2004 **ACM Transactions on Computer Systems (TOCS)**, Volume 22 Issue 1

Full text available: pdf(833.84 KB)   Additional Information: full citation, abstract, references, index terms

Interposition-based system enhancements for multitiered servers are difficult to build because important system context is typically lost at application and machine boundaries. For example, resource quotas and user identities do not propagate easily between cooperating services that execute on different hosts or that communicate with each other via intermediary services. Application-transparent system enhancement is difficult to achieve when such context information is obscured by complex servic ...

Keywords: Distributed computing, component services, distributed context, multitiered services, operating systems, server consolidation

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35 Data base directions: the next steps

John L. Berg
November 1976 , Volume 8 , 8 Issue 4 , 2

Full text available: pdf(9.95 MB)   Additional Information: full citation, abstract

What information about data base technology does a manager need to make prudent decisions about using this new technology? To provide this information the National Bureau of Standards and the Association for Computing Machinery established a workshop of approximately 80 experts in five major subject areas. The five subject areas were auditing, evolving technology, government regulations, standards, and user experience. Each area prepared a report contained in these proceedings. The proceedings p ...

Keywords: DBMS, auditing, cost/benefit analysis, data base, data base management, government regulation, management objectives, privacy, security, standards, technology assessment, user experience

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36 Security on FPGAs: State-of-the-art implementations and attacks

Thomas Wollinger, Jorge Guajardo, Christof Paar
August 2004 **ACM Transactions on Embedded Computing Systems (TECS)**, Volume 3 Issue 3

Full text available: pdf(296.79 KB)   Additional Information: full citation, abstract, references, index terms

In the last decade, it has become apparent that embedded systems are integral parts of our every day lives. The wireless nature of many embedded applications as well as their omnipresence has made the need for security and privacy preserving mechanisms particularly important. Thus, as field programmable gate arrays (FPGAs) become integral parts of embedded systems, it is imperative to consider their security as a whole. This contribution provides a state-of-the-art description of security issues ...

Keywords: Cryptography, FPGA, attacks, cryptographic applications, reconfigurable hardware, reverse engineering, security

37 Protection and the control of information sharing in multics

Jerome H. Saltzer

July 1974   **Communications of the ACM**, Volume 17 Issue 7

Full text available: 📄 pdf(1.75 MB)   Additional Information: full citation, abstract, references, citings, index terms

The design of mechanisms to control the sharing of information in the Multics system is described. Five design principles help provide insight into the tradeoffs among different possible designs. The key mechanisms described include access control lists, hierarchical control of access specifications, identification and authentication of users, and primary memory protection. The paper ends with a discussion of several known weaknesses in the current protection mechanism design.

Keywords: Multics, access control, authentication, computer utilities, descriptors, privacy, proprietary programs, protected subsystems, protection, security, time-sharing systems, virtual memory

38 Ad hoc network: A security design for a general purpose, self-organizing, multihop ad hoc wireless network

Thomas S. Messerges, Johnas Cukier, Tom A. M. Kevenaar, Larry Puhl, René Struik, Ed Callaway

October 2003 **Proceedings of the 1st ACM workshop on Security of ad hoc and sensor networks**

Full text available: 📄 pdf(353.25 KB)   Additional Information: full citation, abstract, references, index terms

We present a security design for a general purpose, self-organizing, multihop ad hoc wireless network, based on the IEEE 802.15.4 low-rate wireless personal area network standard. The design employs elliptic-curve cryptography and the AES block cipher to supply message integrity and encryption services, key-establishment protocols, and a large set of extended security services, while at the same time meeting the low implementation cost, low power, and high flexibility requirements of ad hoc wire ...

Keywords: 802.15.4, ad hoc networks, security, wireless

39 An end-to-end approach to globally scalable network storage

Micah Beck, Terry Moore, James S. Plank

August 2002 **ACM SIGCOMM Computer Communication Review , Proceedings of the 2002 conference on Applications, technologies, architectures, and protocols for computer communications**, Volume 32 Issue 4

Full text available: 📄 pdf(286.82 KB)   Additional Information: full citation, abstract, references, citings, index terms

This paper discusses the application of end-to-end design principles, which are characteristic of the architecture of the Internet, to network storage. While putting storage into the network fabric may seem to contradict end-to-end arguments, we try to show not only that there is no contradiction, but also that adherence to such an approach is the key to achieving true scalability of shared network storage. After discussing end-to-end arguments with respect to several properties of network stora ...

Keywords: IBP, asynchronous communications, end-to-end design, exNode, internet backplane protocol, logistical networking, network storage, scalability, store and forward network, wide area storage

40 Protection imperfect: the security of some computing environments

Carole B. Hogan

July 1988 ACM SIGOPS Operating Systems Review, Volume 22 Issue 3

Full text available: pdf(1.31 MB)   Additional Information: full citation, citings, index terms

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Relevance scale ⬜◻▣▨■

61 Queue Focus: Building Systems to Be Shared, Securely   ▬
Poul-Henning Kamp, Robert Watson
July 2004 **Queue**, Volume 2 Issue 5

Full text available: 📄 pdf(575.43 KB) 📄 html (41.37 KB)   Additional Information: full citation, index terms

62 Limitations of the Kerberos authentication system   ▬
S. M. Bellovin, M. Merritt
October 1990 **ACM SIGCOMM Computer Communication Review**, Volume 20 Issue 5

Full text available: 📄 pdf(1.12 MB)   Additional Information: full citation, abstract, citings, index terms

The Kerberos authentication system, a part of MIT's Project Athena, has been adopted by other organizations. Despite Kerberos's many strengths, it has a number of limitations and some weaknesses. Some are due to specifics of the MIT environment; others represent deficiencies in the protocol design. We discuss a number of such problems, and present solutions to some of them. We also demonstrate how special-purpose cryptographic hardware may be needed in some cases.

63 Technology to enable learning: Creating remotely accessible "virtual networks" on a   ▬
single PC to teach computer networking and operating systems
Mark Stockman
October 2003 **Proceeding of the 4th conference on Information technology curriculum**

Full text available: 📄 pdf(209.56 KB)   Additional Information: full citation, abstract, references, citings, index terms, review

Instruction in the area of computer networking (specifically systems administration) can be cumbersome and ineffective; and is almost always is an expensive prospect when it comes to instructional and lab facilities. Problems arise both in the classroom and the lab when trying to recreate a true computing environment. Two solutions spelled out in this paper, virtual machines and remoting technology, have been implemented to help solve these problems encountered in the delivery of instruction.

Keywords: networking lab, remote administration, remoting technology, systems administration instruction, virtual machines, virtual network

64 Integrating security in a large distributed system

M. Satyanarayanan
August 1989 **ACM Transactions on Computer Systems (TOCS)**, Volume 7 Issue 3

Full text available: pdf(2.90 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

Andrew is a distributed computing environment that is a synthesis of the personal computing and timesharing paradigms. When mature, it is expected to encompass over 5,000 workstations spanning the Carnegie Mellon University campus. This paper examines the security issues that arise in such an environment and describes the mechanisms that have been developed to address them. These mechanisms include the logical and physical separation of servers and clients, support for secure communication ... .

65 Frameworks for component-based client/server computing

Scott M. Lewandowski
March 1998 **ACM Computing Surveys (CSUR)**, Volume 30 Issue 1

Full text available: pdf(243.81 KB)   Additional Information: full citation, references, citings, index terms

66 O—IMAP in 90 days or how to migrate 25,000 users to IMAP in three months

Jay Graham
October 2000 **Proceedings of the 28th annual ACM SIGUCCS conference on User services: Building the future**

Full text available: pdf(123.22 KB)   Additional Information: full citation, index terms

Keywords: IMAP, POP, client-server, e-mail, legacy

67 MULTISAFE—a modular multiprocessing approach to secure database management

Robert P. Trueblood, H. Rex Hartson, Johannes J. Martin
September 1983 **ACM Transactions on Database Systems (TODS)**, Volume 8 Issue 3

Full text available: pdf(2.00 MB)   Additional Information: full citation, abstract, references, index terms

This paper describes the configuration and intermodule communication of a MULTImodule system for supporting Secure Authorization with Full Enforcement (MULTISAFE) for database management. A modular architecture is described which provides secure, controlled access to shared data in a multiuser environment, with low performance penalties, even for complex protection policies. The primary mechanisms are structured and verifiable. The entire approach is immediately extendible to distributed pr ...

Keywords: abstract data types, access control, back-end database, intermodule communication, secure database

68 Role-based access control on the web

February 2001 **ACM Transactions on Information and System Security (TISSEC)**, Volume 4 Issue 1

Full text available: pdf(331.03 KB)   Additional Information: full citation, abstract, references, citings, index terms, review

Current approaches to access control on the Web servers do not scale to enterprise-wide systems because they are mostly based on individual user identities. Hence we were

motivated by the need to manage and enforce the strong and efficient RBAC access control technology in large-scale Web environments. To satisfy this requirement, we identify two different architectures for RBAC on the Web, called user-pull and server-pull. To demonstrate feasibility, we im ...

Keywords: WWW security, cookies, digital certificates, role-based access control

69 Computers and Privacy: A Survey
Lance J. Hoffman
June 1969 **ACM Computing Surveys (CSUR)**, Volume 1 Issue 2
Full text available: pdf(1.74 MB)   Additional Information: full citation, references, citings, index terms

70 Data Security
Dorothy E. Denning, Peter J. Denning
September 1979 **ACM Computing Surveys (CSUR)**, Volume 11 Issue 3
Full text available: pdf(1.97 MB)   Additional Information: full citation, references, citings, index terms

71 Grapevine: an exercise in distributed computing
Andrew D. Birrell, Roy Levin, Michael D. Schroeder, Roger M. Needham
April 1982 **Communications of the ACM**, Volume 25 Issue 4
Full text available: pdf(1.71 MB)   Additional Information: full citation, abstract, references, citings, index terms

Grapevine is a multicomputer system on the Xerox research internet. It provides facilities for the delivery of digital messages such as computer mail; for naming people, machines, and services; for authenticating people and machines; and for locating services on the internet. This paper has two goals: to describe the system itself and to serve as a case study of a real application of distributed computing. Part I describes the set of services provided by Grapevine and how its data and funct ...

72 High dictionary compression for proactive password checking
Francesco Bergadano, Bruno Crispo, Giancarlo Ruffo
November 1998 **ACM Transactions on Information and System Security (TISSEC)**, Volume 1 Issue 1
Full text available: pdf(141.89 KB)   Additional Information: full citation, abstract, references, citings, index terms, review

The important problem of user password selection is addressed and a new proactive password-checking technique is presented. In a training phase, a decision tree is generated based on a given dictionary of weak passwords. Then, the decision tree is used to determine whether a user password should be accepted. Experimental results described here show that the method leads to a very high dictionary compression (up to 1000 to 1) with low error rates (of the order of 1%). A prototype implementat ...

Keywords: access control, decision trees, password selection, proactive password checking

73 SPINS: security protocols for sensor netowrks
Adrian Perrig, Robert Szewczyk, Victor Wen, David Culler, J. D. Tygar
July 2001 **Proceedings of the 7th annual international conference on Mobile**

computing and networking

Full text available: 📄 pdf(242.17 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

As sensor networks edge closer towards wide-spread deployment, security issues become a central concern. So far, much research has focused on making sensor networks feasible and useful, and has not concentrated on security.

We present a suite of security building blocks optimized for resource-constrained environments and wireless communication. SPINS has two secure building blocks: SNEP and &mgr;TESLA SNEP provides the following important baseline security primitives: Data confidentia ...

74 <u>A ubiquitous stable storage for mobile computing devices</u>
Legand L. Burge, Suleiman Baajun, Moses Garuba
March 2001 **Proceedings of the 2001 ACM symposium on Applied computing**

Full text available: 📄 pdf(80.15 KB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>index terms</u>

Keywords: Jini, mobile computing, post-pc, security, wireless

75 <u>Session 7: passwords revisited: A note on proactive password checking</u>
Jianxin Jeff Yan
September 2001 **Proceedings of the 2001 workshop on New security paradigms**

Full text available: 📄 pdf(505.52 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

Nowadays, proactive password checking algorithms are based on the philosophy of the dictionary attack, and they often fail to prevent some weak passwords with low entropy. In this paper, a new approach is proposed to deal with this new class of weak passwords by (roughly) measuring entropy. A simple example is given to exploit effective patterns to prevent low-entropy passwords as the first step of entropy-based proactive password checking.

Keywords: dictionary attack, entropy, proactive password checking

76 <u>Computing curricula 2001</u>
September 2001 **Journal on Educational Resources in Computing (JERIC)**

Full text available: 📄 pdf(613.63 KB)
                    📄 html(2.78 KB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

77 <u>On secure and pseudonymous client-relationships with multiple servers</u>
Eran Gabber, Phillip B. Gibbons, David M. Kristol, Yossi Matias, Alain Mayer
November 1999 **ACM Transactions on Information and System Security (TISSEC)**, Volume 2 Issue 4

Full text available: 📄 pdf(161.56 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>, <u>review</u>

This paper introduces a cryptographic engine, Janus, which assists clients in establishing and maintaining secure and pseudonymous relationships with multiple servers. The setting is such that clients reside on a particular subnet (e.g., corporate intranet, ISP) and the servers reside anywhere on the Internet. The Janus engine allows each client-server relationship to use either weak or strong authentication on each interaction. At the same

time, each interaction preserves privacy by neithe ...

Keywords: Janus function, anonymity, mailbox, persistent relationship, privacy, pseudonym

78 Reflection as a mechanism for software integrity verification

Diomidis Spinellis
February 2000 **ACM Transactions on Information and System Security (TISSEC)**, Volume 3
Issue 1

Full text available: pdf(85.99 KB)   Additional Information: full citation, abstract, references, index terms, review

The integrity verification of a device's controlling software is an important aspect of many emerging information appliances. We propose the use of reflection, whereby the software is able to examine its own operation, in conjunction with cryptographic hashes as a basis for developing a suitable software verification protocol. For more demanding applications meta-reflective techniques can be used to thwart attacks based on device emulation strategies. We demonstrate how our approach can be ...

Keywords: cryptographic hash function, embedded device, message digest

79 Authentication in the Taos operating system

Edward Wobber, Martín Abadi, Michael Burrows, Butler Lampson
December 1993 **ACM SIGOPS Operating Systems Review , Proceedings of the fourteenth ACM symposium on Operating systems principles**, Volume 27
Issue 5

Full text available: pdf(1.45 MB)   Additional Information: full citation, abstract, references, citings, index terms

We describe a design and implementation of security for a distributed system. In our system, applications access security services through a narrow interface. This interface provides a notion of identity that includes simple principals, groups, roles, and delegations. A new operating system component manages principals, credentials, and secure channels. It checks credentials according to the formal rules of a logic of authentication. Our implementation is efficient enough to support a substantia ...

80 Emergent web patterns: Automatically sharing web experiences through a hyperdocument recommender system

Alessandra Alaniz Macedo, Khai N. Truong, José Antonio Camacho-Guerrero, Maria da GraÇa Pimentel
August 2003 **Proceedings of the fourteenth ACM conference on Hypertext and hypermedia**

Full text available: pdf(620.88 KB)   Additional Information: full citation, abstract, references, citings, index terms

As an approach that applies not only to support user navigation on the Web, recommender systems have been built to assist and augment the natural social process of asking for recommendations from other people. In a typical recommender system, people provide suggestions as inputs, which the system aggregates and directs to appropriate recipients. In some cases, the primary computation is in the aggregation; in others, the value of the system lies in its ability to make good matches between the re ...

Keywords: information retrieval, open hypermedia, recommender systems, semantic structures, web

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41 Security issues for wireless ATM networks
Danai Patiyoot
January 2002 **ACM SIGOPS Operating Systems Review**, Volume 36 Issue 1
Full text available: 📄 pdf(1.75 MB)   Additional Information: full citation, abstract, references, index terms

> To be able to fulfil the need of user in wireless ATM, the system has to acquire features. One of the system features for the wireless ATM is functionality especially the security aspect. There is so far tittle, if not none, security consideration in the developing of wireless ATM standard. Therefore a wide range of features in security functions is in consideration. This paper tried to define the features of security in wireless ATM networks considering it features from existing fixed ATM netwo ...

> **Keywords**: security, wireless ATM

42 Network security probe
P. Rolin, L. Toutain, S. Gombault
November 1994 **Proceedings of the 2nd ACM Conference on Computer and communications security**
Full text available: 📄 pdf(1.04 MB)   Additional Information: full citation, abstract, references, index terms

> Many current approach to access control assume all external access are dangerous. As a consequence they stop all communication and check for authorisation. We present an optimistic approach to provide security services in a network environment that do not interject the security services into the operational sequence, rather, the security services are established as a parallel set of services/steps. This optimistic approach let go the communication and checks in parallel for authorization, i ...

> **Keywords**: Network Security Probe, access control, audit, intrusion, security

43 Manageability, availability and performance in Porcupine: a highly scalable, cluster-based mail service
Yasushi Saito, Brian N. Bershad, Henry M. Levy
December 1999 **ACM SIGOPS Operating Systems Review , Proceedings of the seventeenth ACM symposium on Operating systems principles**, Volume 33 Issue 5

Full text available: 📄 pdf(1.62 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

This paper describes the motivation, design, and performance of Porcupine, a scalable mail server. The goal of Porcupine is to provide a highly available and scalable electronic mail service using a large cluster of commodity PCs. We designed Porcupine to be easy to manage by emphasizing dynamic load balancing, automatic configuration, and graceful degradation in the presence of failures. Key to the system's manageability, availability, and performance is that sessions, data, and underlying serv ...

44 <u>Andrew: a distributed personal computing environment</u>   ▬

James H. Morris, Mahadev Satyanarayanan, Michael H. Conner, John H. Howard, David S. Rosenthal, F. Donelson Smith
March 1986 **Communications of the ACM**, Volume 29 Issue 3

Full text available: 📄 pdf(2.16 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>, <u>review</u>

The Information Technology Center (ITC), a collaborative effort between IBM and Carnegie-Mellon University, is in the process of creating Andrew, a prototype computing and communication system for universities. This article traces the origins of Andrew, discusses its goals and strategies, and gives an overview of the current status of its implementation and usage.

45 <u>Web technologies and applications (WTA): Cookies on-the-move: managing cookies</u>   ▬
<u>on a smart card</u>

Alvin T. S. Chan
March 2004 **Proceedings of the 2004 ACM symposium on Applied computing**

Full text available: 📄 pdf(335.19 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>

Despite the widespread use and adoption of cookies as the basis for web applications to keep state information, cookies present some design issues that are yet to be fully addressed. The fact that cookies are stored on client-side's memory means that they are tightly coupled to the machine that is interacting with the web server. Yet often, these cookies are initiated by web applications to identify user's preferences and identifications. As the user moves across different machines to access the ...

Keywords: Web, cookies, mobile, smart card

46 <u>Client-server computing in mobile environments</u>   ▬

Jin Jing, Abdelsalam Sumi Helal, Ahmed Elmagarmid
June 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 2

Full text available: 📄 pdf(233.31 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>, <u>review</u>

Recent advances in wireless data networking and portable information appliances have engendered a new paradigm of computing, called mobile computing, in which users carrying portable devices have access to data and information services regardless of their physical location or movement behavior. In the meantime, research addressing information access in mobile environments has proliferated. In this survey, we provide a concrete framework and categorization of the various way ...

Keywords: application adaptation, cache invalidation, caching, client/server, data dissemination, disconnected operation, mobile applications, mobile client/server, mobile compuing, mobile data, mobility awareness, survey, system application

47 <u>Two years of experience with a &mgr;-Kernel based OS</u>
Jochen Liedtke, Ulrich Bartling, Uwe Beyer, Dietmar Heinrichs, Rudolf Ruland, Gyula Szalay
April 1991 **ACM SIGOPS Operating Systems Review**, Volume 25 Issue 2

Full text available: <u>pdf(829.22 KB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>citings</u>, <u>index terms</u>

This paper describes the basic components of the L3 operating system and the experiences of the first two years using it. The system results from scientific research, but is addressed to commercial application. It is based on a small kernel handling tasks, threads and dataspaces. User level device drivers and file systems are described as examples of flexible OS services realized outside the kernel.

48 <u>Computation and communication in R*: a distributed database manager</u>
Bruce G. Lindsay, Laura M. Haas, C. Mohan, Paul F. Wilms, Robert A. Yost
February 1984 **ACM Transactions on Computer Systems (TOCS)**, Volume 2 Issue 1

Full text available: <u>pdf(1.05 MB)</u>   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Keywords: distributed computation, distributed recovery protocols, site autonomy

49 <u>Macintosh OS X: a smooth migration</u>
Scott E. Hanselman, Mahmoud Pegah
September 2003 **Proceedings of the 31st annual ACM SIGUCCS conference on User services**
Full text available: <u>pdf(208.81 KB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

The Ringling School of Art and Design is a fully accredited four year college of visual art and design with a student population of approximately 1000. The Ringling School has achieved national recognition for its large-scale integration of technology into collegiate visual art and design education and maintains a student to computer ratio of better than two to one. Due to the demand for computing power and the requirement for ease of use, we moved our instructional computer laboratories to the ...

Keywords: Macintosh OS X, NFS, NIS, SSH, fonts, migration, network

50 <u>Face recognition: A literature survey</u>
W. Zhao, R. Chellappa, P. J. Phillips, A. Rosenfeld
December 2003 **ACM Computing Surveys (CSUR)**, Volume 35 Issue 4

Full text available: <u>pdf(4.28 MB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

As one of the most successful applications of image analysis and understanding, face recognition has recently received significant attention, especially during the past several years. At least two reasons account for this trend: the first is the wide range of commercial and law enforcement applications, and the second is the availability of feasible technologies after 30 years of research. Even though current machine recognition systems have reached a certain level of maturity, their success is ...

Keywords: Face recognition, person identification

51 <u>A grid-enabled MPI: message passing in heterogeneous distributed computing systems</u>
Ian Foster, Nicholas T. Karonis

November 1998 **Proceedings of the 1998 ACM/IEEE conference on Supercomputing (CDROM)**

Full text available: [img] html(52.16 KB)   Additional Information: full citation, abstract, references, citings

Application development for high-performance distributed computing systems, or computational grids as they are sometimes called, requires ``grid-enabled" tools that hide mundane aspects of the heterogeneous grid environment without compromising performance. As part of an investigation of these issues, we have developed MPICH-G, a grid-enabled implementation of the Message Passing Interface (MPI) that allows a user to run MPI programs across multiple computers at different sites using the same co ...

Keywords: MPI, MPICH, Message Passing Interface, computational grids, globus, metacomputing

52 The clearinghouse: a decentralized agent for locating named objects in a distributed environment
Derek C. Oppen, Yogen K. Dalal
July 1983 **ACM Transactions on Information Systems (TOIS)**, Volume 1 Issue 3

Full text available: [img] pdf(1.73 MB)   Additional Information: full citation, references, citings, index terms

53 Service infastructure and network management: MobiDesk: mobile virtual desktop computing
Ricardo A. Baratto, Shaya Potter, Gong Su, Jason Nieh
September 2004 **Proceedings of the 10th annual international conference on Mobile computing and networking**

Full text available: [img] pdf(580.39 KB)   Additional Information: full citation, abstract, references, index terms

We present MobiDesk, a mobile virtual desktop computing hosting infrastructure that leverages continued improvements in network speed, cost, and ubiquity to address the complexity, cost, and mobility limitations of today's personal computing infrastructure. MobiDesk transparently virtualizes a user's computing session by abstracting underlying system resources in three key areas: display, operating system, and network. It provides a thin virtualization layer that decouples a user's computing ses ...

Keywords: computer utility, network mobility, on-demand computing, process migration, thin-client computing, virtualization

54 OS X: here we go again
Scott E. Hanselman, Luis Hernandez, Divyangi Anchan, Mahmoud Pegah
October 2004 **Proceedings of the 32nd annual ACM SIGUCCS conference on User services**

Full text available: [img] pdf(256.69 KB)   Additional Information: full citation, abstract, references, index terms

Due to the positive response of our fall 2002 OS X deployment and our desire to provide the campus community with the latest and greatest tools, we upgraded our instructional computer laboratories to Jaguar, Macintosh OS X version 10.2 in the fall of 2003.

This paper will outline the procedures we implemented our second time around. We shall discuss the items we did differently such as LDAP authentication, font management, application support, user training, login and logout hooks, pri ...

Keywords: LDAP, Macintosh OS X, NFS, SSH, fonts, login hooks, logout hooks, migration, network

55 Is your computing environment secure?: security problems with interrupt handling mechanisms

Ping Hu, Bruce Christianson
October 1995 **ACM SIGOPS Operating Systems Review**, Volume 29 Issue 4

Full text available: pdf(764.10 KB)   Additional Information: full citation, abstract, index terms

> In an open distributed system, resources must be shared among various users. Security is one of the major issues in designing such a system. When a computer system is connected to a network, it is very important to ensure that the computer has the ability to manage its local resources securely. In this position paper, we will demonstrate that current computer architectures do give malicious users ways to penetrate computer systems and hence access the system or other user's secrets which are sup ...

56 Dynamic analysis of security protocols

Alec Yasinsac
February 2001 **Proceedings of the 2000 workshop on New security paradigms**

Full text available: pdf(871.04 KB)   Additional Information: full citation, references, citings, index terms

57 E-commerce over communicators: challenges and solutions for user interfaces

Mona Singh, Anuj K. Jain, Munindar P. Singh
November 1999 **Proceedings of the 1st ACM conference on Electronic commerce**

Full text available: pdf(744.21 KB)   Additional Information: full citation, references, index terms

58 Multilevel μTESLA: Broadcast authentication for distributed sensor networks

Donggang Liu, Peng Ning
November 2004 **ACM Transactions on Embedded Computing Systems (TECS)**, Volume 3 Issue 4

Full text available: pdf(410.86 KB)   Additional Information: full citation, abstract, references, index terms

> Broadcast authentication is a fundamental security service in distributed sensor networks. This paper presents the development of a scalable broadcast authentication scheme named <i>multilevel µTESLA</i> based on µTESLA, a broadcast authentication protocol whose scalability is limited by its unicast-based initial parameter distribution. Multilevel µTESLA satisfies several nice properties, including low overhead, tolerance of message loss, scalability to large networks, and re ...

> **Keywords**: Broadcast authentication, TESLA, sensor networks

59 The Legion vision of a worldwide virtual computer

Andrew S. Grimshaw, Wm. A. Wulf, CORPORATE The Legion Team
January 1997 **Communications of the ACM**, Volume 40 Issue 1

Full text available: pdf(1.00 MB)   Additional Information: full citation, references, citings, index terms, review

60 Secured systems and Ada: a trusted system software architecture

Mark Aldrich
November 1994 **Proceedings of the conference on TRI-Ada '94**

Full text available: ▦ pdf(1.25 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

In this paper, we will present an architecture for developing a system reliant upon trusted Ada software, and some of the lessons learned in our having done such a development. Some background on trusted software and the trusted information systems within which such Ada software operates is provided, as well as some theoretical and practical aspects of the use of Ada in developing these systems. The notion of a trusted computing base (TCB) is presented and defined. A generalized trusted sof ...

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